

# Notice of Allowability

Application No.

10/520,320

Examiner

George P. Wyszomierski

Applicant(s)

YIM ET AL.

Art Unit

1793

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed October 13, 2005.
2. ☒ The allowed claim(s) is/are 1,2,4-19 and 21-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment \_\_\_\_\_
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 8/7/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview and email with Lauren Schneider on November 15, 2007.

2. In the claims:

Claim 1, line 3, after "group" insert --consisting--,

line 4, after "group" insert --consisting--,

line 5, after "group" insert --consisting--.

Claim 2, rewrite as follows:

2. (Currently Amended) ~~[[The]]~~ A glass forming alloy described in claim 1 having a composition given by:

$(\text{Ni}_{1-x}\text{TM}_x)_a(\text{Nb}_{1-y}\text{ETM}_y)_b(\text{Sn}_{1-z}\text{AM}_z)_c$

wherein ETM is an early transition metal selected from the group consisting of Ti, Zr, and Ta; TM is a transition metal selected from the group consisting of Fe, Co, and Cu; and AM is an additive material selected from the group consisting of B, and Si;

wherein a is in the range of from 55 to 62, b is in the range of from 33 to 40, and c is in the range of from 2 to 8 in atomic percentages; and

where x is less than 0.1, y is less than 0.2, z is less than 0.3, and the sum of x, y and z is less than about 0.3.

Cancel claim 3.

Claim 18, line 3, after "group" insert --consisting--,

line 4, after "group" insert --consisting--,

line 5, after "group" insert --consisting--.

Claim 19, rewrite as follows:

19. (Currently Amended) ~~[[The]]~~ An article described in claim 18 made of an amorphous alloy of basic composition given by:

\_\_\_\_\_ (Ni<sub>1-x</sub>TM<sub>x</sub>)a(Nb<sub>1-y</sub>ETM<sub>y</sub>)b(Sn<sub>1-z</sub>AM<sub>z</sub>)c

\_\_\_\_\_ wherein ETM is an early transition metal selected from the group consisting of Ti, Zr, and Ta; TM is a transition metal selected from the group consisting of Fe, Co, and Cu; and AM is an additive material selected from the group consisting of B, and Si;

wherein a is in the range of from 55 to 62, b is in the range of from 33 to 40, and c is in the range of from 2 to 8 in atomic percentages; and

where x is less than 0.1, y is less than 0.2, z is less than 0.3, and the sum of x, y and z is less than about 0.3.

Cancel claim 20.

Claim 26, line 2, change "than160" to --than 160--.

3. New Drawings are required in this application because the drawings as filed contain numbers or letters less than 0.32 cm (1/8 inch) in height, and contain numbers or letters placed upon hatched or shaded surfaces. New drawings in compliance with 37 CFR 1.84, and in particular in with 37 CFR 1.84 (p)(3) are REQUIRED to avoid abandonment of this application.

4. The following is an examiner's statement of reasons for allowance: The prior art does not disclose or suggest an amorphous (i.e. glass forming) alloy including amounts of nickel, niobium or tantalum, and tin as required by any of instant claims 1, 2, 18, or 19, with or without any of the optional TM, ETM, or AM elements as recited in the instant claims.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. All patent application related correspondence transmitted by facsimile must be directed to the central facsimile number, (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GPW  
November 19, 2007

  
GEORGE WYSZOMIERSKI  
PRIMARY EXAMINER  
GROUP 1700